

ABSTRACT OF THE DISCLOSURE

A disposable tissue removal device comprises a "tube within a tube" cutting element mounted to a handpiece. The inner cannula of the cutting element defines an inner lumen and terminates in an inwardly beveled, razor-sharp cutting edge. The inner cannula is driven by both a rotary motor and a reciprocating motor. At the end of its stroke, the inner cannula makes contact with the cutting board to completely sever the tissue. An aspiration vacuum is applied to the inner lumen to aspirate excised tissue through the inner cannula and into a collection trap that is removably mounted to the handpiece. The rotary and reciprocating motors are hydraulically powered through a foot pedal operated hydraulic circuit. The entire biopsy device is configured to be disposable. In one embodiment, the cutting element includes a cannula hub that can be connected to a fluid source, such as a valve-controlled saline bag.